

RECENTLY PATENTED INVENTIONS.

Pertaining to Apparel.

TROUSERS-EXPANDER.—J. SARGH, New York, N. Y. The expander holds the trousers expanded at the inner sides of the wearer's limbs to hide the bow-legged formation, the expander being actuated in a very simple manner from the crotch of the trousers when the wearer is in an erect position, and the expander collapsing when the latter is in sitting position.

BANDAGE-SUPPORT.—C. M. COOKE, New York, N. Y. This bandage is in the form of bands or ribbons wound around the leg of a person afflicted with varicose veins and other ailments. The inventor provides a support for holding the bandage of the type mentioned securely in place, to prevent the bandage from slipping on the leg, and thus allow the bandage to properly fulfill its legitimate functions to the fullest advantage.

Electrical Devices.

MEANS FOR CLOSING AN OPEN TELEGRAPH-CIRCUIT AT A DISTANT KEY.—C. B. JEWELL, La Junta, Colo. The main feature here consists in the provision at a terminal office of an extra switch and circuit, and an extra battery of such higher voltage than the ordinary working batteries that when the battery of higher voltage is switched on to the live wire it will force its current through the resistance around any open key and, by working the relay of that key, apprise the forgetful operator at that station that he has left his key open and thus instruct him to close it.

APPARATUS FOR RECEIVING SUBMARINE SIGNALS.—C. H. MUNDY, Metuchen, N. J. The invention belongs to a class that possesses all the advantages of the others, the same consisting of a sound transmitter exposed directly to the sea and accessible from within the ship, and is distinguished from other inventions of this class in that the transmitter proper may be removed and replaced while the ship is afloat without taking water within the ship.

Of Interest to Farmers.

HARVESTING-MACHINE.—W. LIVTSCHAK, St. Petersburg, Russia. It is rendered possible by this inventor to heap or pile the cut crop in a space on the frame between the main wheel and the finger bar to discharge same in definite heaps upon the ground so that free space is left for the path of the draft animals, and the subsequent binding up into sheaves by hand is facilitated.

Of General Interest.

APPARATUS FOR BUILDING CONCRETE AND OTHER LIKE STRUCTURES.—W. C. POLK, Fort Branch, Ind. Means provide for supporting the forms independently of the concrete, whereby the green concrete will not be strained or broken by the weight of the forms or by removing the forms after the concrete has set; also for releasing and re-setting the forms for repeated elevations as the building of the walls proceeds, whereby the same forms are continually used, and saving time and labor; and to support the forms that they will be held plumb and level and require no more attention in this respect after the support has once been properly set.

WINDOW.—A. C. GODDARD, New York, N. Y. The window has a swinging or a transom sash arranged to insure a tight joint, to render the window dust and moisture proof when closed. The window frames and sashes can be constructed of sheet metal in a very simple and exceedingly durable manner.

METHOD OF MANUFACTURE OF ROSIN SOAP AND THE LIKE.—A. W. CARMICHAEL, Savannah, Ga. In the present patent the invention is an improved method for dehydrating a saponified solution of rosin commonly called "wet pulpy size," in the production of hard rosin soap, which is more especially used by paper mills in the so-called sizing or water-proof process.

Hardware.

TRIM-FASTENING.—A. C. GODDARD, New York, N. Y. The invention pertains to metal doors, windows, base boards, and like structures, and its object is to provide a trim or molding fastening, more especially designed for securely and quickly fastening trimmings or moldings in place without the use of screws, rivets, or similar fastening devices, and without showing exterior projections, holes, marks, or the like.

GRAVITY-LOCK FOR WINDOWS.—A. C. GODDARD, New York, N. Y. The object of this improvement is to provide a lock arranged to automatically lock in case of fire when the sash is closed by fusing of the chain link connection, to securely hold the window locked and to allow convenient and quick unlocking of the window sash and opening the same.

PLUG FOR REPAIRING HOSE.—A. L. MONAGHAN, Houston, Texas. The object here is to produce a plug which is especially adapted for use in repairing a puncture or perforation in a hose. More particularly the object is to give the plug a form that will facilitate its introduction into the puncture, and which will operate to insure that the plug will remain in position.

Household Utilities.

CLOTHES-HANGER.—J. G. MADLAND, Port Angeles, Wash. A purpose in this case is to provide a clothes reel or rack having revoluble action and which can be dropped down to be loaded or unloaded, and which can be readily carried up and secured in an upright position for drying purposes.

CURTAIN-FIXTURE.—J. E. BOSLER, Olean, N. Y. The invention provides a fixture which provides means for supporting curtain poles and shade rollers. Further, it provides a device for use in holding and supporting curtain poles and shade rollers, and adapted to be adjusted to permit its use in connection with poles and shade rollers of different sizes.

Machines and Mechanical Devices.

REEDING-MACHINE.—O. SCHULER and R. GLASER, Paterson, N. J. The machine is particularly useful in warping or harnessing looms for weaving textile fabrics. An object of the invention is to provide a machine by means of which the warp threads used in textile looms can be easily and expeditiously inserted in the slits of reeds used in connection with these looms.

Designs.

DESIGN FOR A PEN-BOX, DESK-TRAY, AND PAPER-WEIGHT.—C. R. SMEAD, Hastings, Minn. The ornamental design for a pen box, desk tray, and paper weight, comprises an oblong, square cornered, and flat topped article with its lower half having a slightly receding base marked or fluted with a continuous row of ornamental indentations.

NOTE.—Copies of any of these patents will be furnished by Munn & Co. for ten cents each. Please state the name of the patentee, title of the invention, and date of this paper.

Legal Notices

PATENTS

INVENTORS are invited to communicate with MUNN & CO., 361 Broadway, New York, or 625 F Street, Washington, D. C., in regard to securing valid patent protection for their inventions. Trade-Marks and Copyrights registered. Design Patents and Foreign Patents secured.

We undertake all Patent, Trade-Mark and Copyright Practice, both before the Patent Office and the Courts, and we have special facilities for handling Infringement and other suits in Federal and State jurisdictions.

A Free Opinion as to the probable patentability of an invention will be readily given to any inventor furnishing us with a model or sketch and a brief description of the device in question. All communications are strictly confidential. Our Hand-Book on Patents will be sent free on request.

Every patent secured through us receives special notice in the Scientific American.

Ours is the Oldest Agency for securing patents: it was established over sixty years ago.

MUNN & CO., 361 Broadway, New York Branch Office, 625 F St., Washington, D. C.

INDEX OF INVENTIONS

For which Letters Patent of the United States were issued for the Week Ending January 12, 1909, AND EACH BEARING THAT DATE

[See note at end of list about copies of these patents.]

Table listing inventions such as Acid, apparatus for making sulfuric acid, Adjustable hanger, Downing & Duley, Aerial ropeway, C. W. Henry, Air brake system, H. W. Ley, Air compressor, variable volume, M. Kurth, Air heater, A. Mathias, Air ship, W. Rumble, Alloy, J. F. Clapp, Amusement apparatus, E. Woerth, Amusement slide, W. S. Tothill, Animal trap, G. C. Biddle, Annunciator, E. J. Brandt, Arsenophenol, Ehrlich & Berthelm, Automobile spring, L. S. Chadwick, Automobile steering wheel, A. J. Kinnean, Automobile wind shield, H. H. White, Awl, sewing, A. M. Parker, Axle oiling device, L. Damour, Bag, J. D. O'Brien, Baling press, Neumann & Dunham, Baling press, W. O. Cumming, Balloon or air ship, A. F. Godfrey, Barrel trussing machine, Sullivan & Young, Bath tub and cabinet, combined, C. W. Peterson, Bath tub waste and overflow connection, J. F. Eichenlaub, Battery discharge regulator, E. J. Murphy, Battery plate, G. B. Rinehart, Battery, secondary, L. H. Flanders, Beating engine, A. Muirhead, Bed, spring, W. E. Frank, Bed spring, J. H. & L. S. Zelders, Bedstead mattress or bottom attachment, S. W. Bennett, Beet harvester, W. Kite, Beet toppler, Giddings & Blevins, Bell. See Electric alarm bell, Belt buckle, H. L. Perryman, Belt carrier, C. Miller, Belt coupling, J. C. Cottle, Bench clamp, I. Solberg, Billiard marker, etc., H. R. Wildish, Billiard table, F. Hepton, Bin, Cameron & Randolph, Binder or loose sheet holder, temporary, Pink & Petty, Block signal system, F. E. Corey, Boat, hydroplane, L. E. Simpson, Boiler, M. H. Hedger, Boiler scale removing apparatus, A. Schror, Boiler setting, D. F. Kilgour, Boiler stand, range, C. H. Foster, Bolt clipper, H. K. Porter, Book, instruction, J. D. Thompson, Boot and shoe insole, G. W. Belonga, Boring apparatus, deep, W. Schott, Bottle, non-refillable, S. Gardner, Bottle washer, Arndt & Marquart, Bottling machine crown branding attachment, Gilmore & Mulkey, Box fastener, N. Dahl, Box strap and bale tie, A. A. Patziay, Brake shoe, G. A. Woodman, Brake shoe, H. Lewis, Brake shoe, A. L. Streeter, Bridle bit, J. Cummings, Brush, A. H. Wolcott, Brush, rotary, H. Nielson, Bucket, H. Troeger, Buckle, A. C. Stone, Buckle and clasp attaching means, H. Gibson, Burglar alarm, H. Wettstein, Burglar alarm, C. E. C. Eddy, Butter compound making, J. E. Garrette, Butter, making, C. G. Johnson, Button, E. R. Joppler, Cable hanger, C. L. Peirce, Jr., Calculating device, S. R. Lamb, Calendar, W. H. Hall, Calendar frame and card, W. H. Hall, Can, C. Rucht, Canning operations, machine employed in, G. G. Glass, Car automatic air and gas valve, W. D. McPherson, Car brake rigging, railway, W. H. Sauvage, Car center bearing, L. W. Barber, Car construction, passenger, F. M. Brinckerhoff, Car, dumping, S. Ketchum, Car dumping apparatus, mine, Hubard & Adams, Car end framing, A. E. Ostrand, Car fender, J. D. Wright, Car friction draft rigging, railway, J. F. O'Connor, Car, grain, G. R. Dunn, Car jack, suspension, A. O. Brill, Car, passenger, Curwen & Smith, Car racer, E. Eabin, Car seat, Budd & Cond, Car step, extension, E. W. Fuhr, Car, two-way dump, A. E. Ostrand, Car underframe, W. P. Bettendorf, Cars to the floor level, automatic device for bringing hydraulic elevator, I. B. Ritter, Carbueter, W. C. Westaway, Card holder, illustrated post, E. O. Williams, Card rack, E. O. Williams, Carpet sweeper, O. E. Chaplin, Cart, combination, O. & M. Helgeson, Casting for high fixture stems, P. J. Handel, Cash register, H. S. Hallwood, Casks, device for planing the rims of, L. Drexler, Caster, J. E. Johnson, Catamenial bandage, Treber & Simon, Cattle stanchion, W. B. Crumb, Cellar spray, detachable, J. F. Oliver, Cement buildings, waterproofing paint for Portland, T. A. Edison, Cement structures, waterproofing paint for Portland, T. A. Edison, Chair, See Nursery chair, Child's back rest, L. F. Fullman, Chimney, M. E. Howe, Chimney pot, T. B. Cullen, Christmas tree holder, W. A. Mitchell, Chuck, rivet holding, Sassemann & Dalin, Cigar box, A. E. Smith, Cistern cleaner and water purifier, Murray & Kimball, Clay, etc., machinery for preparing or treating loam, P. Baur, Clock, E. F. Herschede, Clock, electric secondary, Jackson & Vizents, Clock, electric secondary, H. C. Vizents, Clock, electric self-winding, Jackson & Vizents, Clock mount, H. J. Keating, Clock, self-winding, C. W. Wagner, Clock system, E. E. Yaxley, Cloth, etc., machine for cutting lengths of, F. W. Denison, Cloth or other material, machine for trimming and cutting lengths of, F. W. Denison, Clothes drier, G. N. Galloway, Clutch mechanism, J. Maitland, Cock for flushing tanks, ball, W. H. Perkins, Cock, stop, A. D. Herschler, Cock, three-way, E. H. Gold, Coffee pot, China, C. F. Blanke, Coin operated releasing mechanism, G. P. Brand, Coin operating mechanism, Symonds & Brann, Collar dampening and burnishing machine, Currier & Leitschuh, Color and making same, sulfur, E. S. Chapin, Color and making same, sulfur, E. T. Bundman, Comb, sanitary, H. T. Moler, Composition board, J. Ferla, Composition for antiseptic and other purposes, H. S. Blackmore, Composition of matter, J. Laeuffer, et al., Concrete metal reinforce, G. F. Dodge, Concrete mixer, A. D. Hadsel, Concrete tie, reinforced, W. Dunson, Condenser, G. M. Newhall, Condiment holder, H. J. McWilliams, Condit, sectional, W. B. Wight, Conveyor, J. E. Dentthorne, Conveyor belt support, E. E. Vrooman, Cooking utensil cover, C. J. Cooling, Cooler, S. M. King, Coop or crate, O. J. La Bauve, Corn gatherer and husker, E. C. Dean, Corn separator, seed, C. F. Asplund, Cot, collapsible, C. B. Lamb, Cotton chopper, P. Harrison, Cotton cleaner, A. L. Treese, Counting device, D. L. Roscoe, Crate crusher, B. K. Donald, Crank mechanism, D. Kendall, Crate or case, shipping, J. M. Porter, Crown for winding stems of watches, H. Axtell, Crusher, De Wind & Hughton, Crutch, adjustable, G. S. Rhodes, Crutch tip, E. H. Seibert, Culinary utensil, H. B. Seely, Cultivator, O. Caron, Cultivator, W. J. Asbell, Cup shaped articles, apparatus for making, W. H. Smith, Cupola attachment, C. J. Langhorst, Current motor, alternating, M. C. A. Latour, Currycomb, J. Oisafskie, Curtain fixture, P. A. Houghtaling, Cut off, A. L. Rosene, Cutlery grinder, H. E. Sweet, Cutter bar, E. F. McElwee, Cutter head, E. F. Beugler, Cycle handle, W. C. Mead, Damper regulator, W. M. Fulton, Dental implement, C. C. Murray, Dental stool or the like, W. H. Reynolds, Die head, automatic, Brown & Sprink, Die washing machine, C. W. Jaycox, Display rack, J. E. Biedy, Door check, C. P. Dorn, Door construction, sliding, J. R. Hussey, Door opener, F. Conner, Double rake, R. M. Kenney, Draft equalizer, H. J. Helder, reissue, Dredging apparatus, J. Carlesmo, Drying, C. W. Volney, Drilling engine, rock, J. A. Traylor, Driving mechanism, sliding friction, A. A. De Loach, Drum, winding, F. Donaldson, Dust collector, H. A. Knos, Dye and making same, anthracene, M. H. Isier, Dye and making same, sulfur, E. S. Chapin, 909,151, 909,152, 909,154, 909,155

Table listing inventions such as Electric alarm bell, N. Kessler, Electric alarm, thermo, Paul & Stewart, Electric fuse, L. W. Downes, Electric machine brush holder, dynamo, M. Walker, Electric machine, dynamo, B. A. Behrend, Electric machine, dynamo, M. W. W. Mackie, Electric machines, motor for starting dynamo, W. D. Pomeroy, Electric signaling, selective, A. H. Nicholson, Electric trap for rats, etc., J. T. Norris, Electrical driving mechanism, G. C. Marx, Electrical impulse transmitting device, J. Erickson, Electrode or pencil for arc lights, I. Ladoff, Electrotype plates, bending, B. F. Upham, Elevator, Sherren & Mason, Elevator safety device, C. Paradis, Elevators and other movable objects and bodies, appliance for, A. Lungen, Embroidering machine fabric roller, A. Saurer, Engine. See Beating engine, Engine admission valve, gas, G. B. Petsche, Engine bed plate, beater, R. A. North, Engine starting apparatus, explosive, L. M. Booth, Engine valve gear, C. F. Prescott, Engine valve gear, steam, A. Hossfeld, Ether, santalol, J. Callsen, Excavator, W. S. Smith, Exchange switching device, party line, W. Hagstrom, Extension bolt, C. T. Schwing, Eyeglass case, A. W. Farrington, Fabric, N. L. Duryea, Fare register, J. Lindhart, Feed mill, R. S. Tomkinson, Feeding device for machine tools, etc., C. A. Hirth, Fibers and fabrics, waterproofing, T. A. Edison, Fibers, treating vegetable textile, A. E. M. Rousseau, Fibrous material, securing together surfaces of, J. R. Harbeck, Fifth wheel, R. G. & L. Cator, File case or cabinet, E. G. Minder, Filing case, C. P. Zoerb, Film roll holder, adjustable, W. J. Bresnan, Firearm with cylindrical breech, semi-automatic, B. Goebel, Firearms, breech mechanism for self-loading, L. Schmeisser, Fish hook holder, snelled, C. F. West, Filer, W. Knowles, Floor scraping machine, G. S. Newman, Floor scraper, J. L. Hearing, Flooring clamp, A. A. Hendrickson, Flower pot, E. Bader, Flush tank, J. O. Brousseau, Flushing tank, H. S. Hawks, Folding box or crate, H. L. Guilline, Fruit, apparatus for use in the treatment of, J. C. L. Campbell, Fruit cutter, A. J. Brunson, Fruit sorter, A. D. Huntley, Fruit, treating, J. C. L. Campbell, Fruits or vegetables, preserving, A. Huch, Fuel, artificial, J. W. Leadbeater, Furnace, G. Prescott, Furnace, A. Wardzinski, Furnace, W. T. Dodge, Furnace, Jackson & Aikens, Furniture folding, W. Rabich, Furniture, hollow sheet metal, F. E. Burns, Furniture joint for wooden structures, A. N. Webb, Furniture structure lock clamp, knockdown, W. C. Dolcater, Fuse and fuse block, portable, G. A. Drucker, Game apparatus, J. Baust, Game apparatus, D. H. Talbert, Game apparatus, W. L. Fross, Gas burner, A. F. Thompson, Gas burner, safety, J. H. Ahlgren, Gas generator, acetylene, W. E. Shreffler, Gas heater automatic cut off, H. A. Koening, Gas meter connecting device, Gray & Stevens, Gas producer, C. L. Straub, Gas producer, P. G. Schmidt, Gate, I. Lester, Gear tooth chamfering apparatus, R. E. Weaver, Gears, etc., upon shafts, machine for removing from and replacing, C. Remelius, Glassware, making machine footed, J. I. Arbogast, Grain drill, A. Bellerive, Graining compound, F. M. Clapp, Grate, D. W. Cherry, Grinder, H. G. McCulloch, Guide for hemming, B. & G. Branower, Gun, automatic, Dawson & Buckham, Gunpowder, smokeless, C. P. H. Claessen, Hand bag, A. Staeger, Handle. See Cycle handle, Hank dyeing machine, J. H. Ashwell, Hay carrier, F. S. Polley, Hay sling, lock, A. P. Boyer, Heating surface, hot air, D. S. Richardson, Heating system, vapor, J. D. Arnold, Hinge, detachable, J. F. Melton, Hog ring, R. Roethlisberger, Hook and eye, W. M. Corthell, Horse and cattle water bowl, automatic, P. A. Cheevers, Horse detacher, M. S. January, Horseshoe pad, J. Dillon, Hose coupling, J. J. Antic, Hose coupling, E. L. rgan, Hose supporter, H. W. Richardson, Hydrocarbon burner, P. M. Keller, Hydrocarbon motor, Winkley & Hart, Hydrogen, composition of matter for generating, G. F. Brindley, Ice cream mold, T. Cohn, Ingot, etc., casting apparatus, W. J. Evans, Ingots, solidifying, E. P. Cuiat, Instand, W. H. Wetmore, Insulated rail joint, E. F. Schermerhorn, Insulators, screw press to form, Hemingray & Hawk, Internal combustion engine, F. W. Brady, Internal combustion engine, C. R. Daellenbach, Jack, J. W. Carlson, Ketone sulfoxylate and making same, A. Stock, Knife handle polishing machine, W. J. Carney, Knitting machine thread controlled stop motion, circular, N. H. Williams, Knotting mechanism, L. B. Wygant, Ladder, H. A. Myers, Ladder, step, Reed & Spooner, Ladder, step, J. B. Robertson, Ladle crane mechanism, D. Kendall, Ladle, swinging, W. R. Palmer, Lamp, A. W. Hall, Lamp, incandescent, M. M. Merritt, Lamp prism, electric, J. C. Zubli, Lamp receptacle, electric, Patterson & Farrell, Lamp, safety, N. B. Ippolito, Lamp, therapeutic, E. W. Locke, Lamps, exhausting, M. M. Merritt, Lap joint and nut lock, continuous, Gash & McDavit, Last, A. G. Fitz, Last support, A. G. Fitz, Lath holder, J. F. & H. L. Presha, Lath machine, Bergren & Moan, Leather, enameling, B. B. Goldsmith, Leather spalling machine, A. A. Chilson, Leaves, swinging display, A. M. Parks, Leg guard for athletes, Pierce & Nickerson, Letter tying device, B. P. Greenwood, Letters and other characters, apparatus for manufacturing, T. J. Wallace, Leveling instrument, A. Blair, Light distributing device, Pearson & Pierce, Light sensitive layer carriers, device for exposing, J. Schmuck, Liquid controller, Shields & Cox, 909,192, 909,818, 909,584, 909,834, 909,136, 909,197, 909,216, 909,651, 909,814, 909,631, 909,382, 909,428, 909,832, 909,695, 909,322, 909,433, 909,826, 909,214, 909,653, 909,140, 909,665, 909,302, 909,541, 909,700, 909,409, 909,462, 909,386, 909,379, 909,625, 909,348, 909,300, 909,168, 909,457, 909,590, 909,755, 909,440, 909,734, 909,534, 909,398, 909,233, 909,722, 909,426, 909,652, 909,406, 909,843, 909,537, 909,789, 909,586, 909,754, 909,145, 909,413, 909,542, 909,600, 909,626, 909,218, 909,488, 909,707, 909,801, 909,820, 909,540, 909,720, 909,561, 909,165, 909,520, 909,708, 909,779, 909,711, 909,508, 909,698, 909,308, 909,179, 909,345, 909,690, 909,194, 909,719, 909,671, 909,842, 909,137, 909,847, 909,756, 909,316, 909,533, 909,849, 909,546, 909,248, 909,513, 909,091, 909,461, 909,672, 909,737, 909,436, 909,229, 909,554, 909,282, 909,420, 909,287, 909,131, 909,200, 909,824, 909,190, 909,725, 909,536, 909,550, 909,570, 909,556, 909,491, 909,458, 909,595, 909,581, 909,558, 909,364, 909,703, 909,544, 909,727, 909,272, 909,315, 909,669, 909,825, 909,699, 909,875, 909,785, 909,812, 909,507, 909,326, 909,416, 909,627, 909,811, 909,580, 909,388, 909,389, 909,217, 909,139, 909,288, 909,157, 909,210, 909,215, 909,399, 909,487, 909,529, 909,447, 909,459, 909,340